

origin: United States. **developed:** W.W. Hanna. **origin institute:** Agricultural Research Service -- USDA, University of Georgia, Agric. Res. Sta., Coastal Plain Exp. Sta., Tifton, Georgia 31793 United States. **cultivar:** TIFT 90D2B1E1. **pedigree:** Cross between a rust and leaf spot resistant plant and a dwarf genotype of Tift 23B1E1. **other id:** PL-21. **group:** CSR-MILLET, PEARL. **restricted:** CSR. **remarks:** B1 (maintainer) line of 90D2E1. Highly resistant to leafspot and rust. Bottom one or two leaves on some plants may develop brown discoloration due to rust infection, but no pustules are formed. Disease resistance controlled by separate major dominant genes for each disease. Flowers 40 to 42 days after planting and averages 1.0m tall at maturity. Seeds brownish-gray in color. Spring Annual. Breeding Material. Seed.

PI 564517 to 564520. Helianthus hybrid ASTERACEAE Sunflower

Donated by: Seiler, G.J., Agricultural Research Service -- USDA, P.O. Box 5677, Fargo, North Dakota 58105, United States; and North Dakota Agr. Exp. Sta.. **remarks:** Six Interspecific Germplasm Lines Derived from Wild Perennial Sunflower. Received December 10, 1992.

PI 564517 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-1. **pedigree:** cms HA 89*2 (Helianthus annuus)/TUB-1709 (H. tuberosus) F3. **other id:** GP-183. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants single headed. Plant height 145cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 91%, viable pollen staining 92%, 100 seed weight 4.5g, test weight 391kg/m³, and oil content 42.8%. Spring Annual. Breeding Material. Seed.

PI 564518 **origin:** United States. **developed:** G.J. Seiler. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab., P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** TUB-1709-2. **pedigree:** cms HA 89*2 (Helianthus annuus)/TUB-1709 (H. tuberosus) F4. **other id:** GP-184. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Plants both single and multiple headed. Plant height 130cm, flowering (50%) 66 days after planting, self-compatibility (seed set under bags) 98%, viable pollen staining 91%, 100 seed weight 4.8g, test weight 386kg/m³, and oil content 43.3%. Spring Annual. Breeding Material. Seed.